

WHAT IS CLAIMED IS:

1. A steam producing device capable of performing dual heating processes, comprising
- 5 an outer shell having a receiving opening at a head, and a generally closed tail end; the tail end having a platform formed with an ejection hole, and a conduit projecting from an outer side and communicating with the ejection hole; the outer shell having first and second positioning trenches, and a concavely curved recess along an inner side thereof; the head of the outer shell having a rim formed with fixing holes; and
- 10 a heating member, the heating member having a heating section inserted into the outer shell; the heating member having first and second elongated separating projections and a convexly curved projection along an outer side of the heating section; the elongated separating projections being closely fitted in respective positioning trenches of the outer shell with the convexly curved projection being received in the concavely curved recess such that a first chamber is defined by the first and the second separating projections and the outer shell, and such that a second chamber is defined by the second separating projection, the convexly curved projection, and the outer shell, and such that a third chamber is defined by the first separating projection, the convexly curved projection, and the outer shell; the heating
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member having a heating pipe hidden therein; the heating section having a steam room lengthwise extending therein from a head to a tail end thereof and communicating with the ejection hole of the outer shell tail end;

5 the heating member having a cap at the head; the cap being provided with an water inlet duct communicating with the first chamber; the cap being provided with a pair of electricity conducting terminals connected to respective ones of two ends of the heating pipe; the cap having a ringed portion on an inner side; a leak-prevention ring being disposed over the ringed portion of the cap to be sandwiched between the cap and the rim; the cap being secured to the rim by means of screwing threaded fixing elements into fixing holes of the cap and the fixing holes of the rim;

a tail end of the first separating projection being co-planer with the tail end of the heating section to block flow of water therethrough; a gap being formed on a tail end of the second separating projection for the first and the second chambers to communicate with each other; the convexly curved projection being a short distance off a surface of the concavely curved recess such that a curved passage is formed in

10 between for the second and the third chambers to communicate with each other; the heating section being formed with a connecting hole for the steam room to communicate with the third chamber;

15 thus, water being capable of traveling through the first, the second, and

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the third chambers in sequence to go through one heating process, and then traveling through the steam room to go through another heating process to be transformed into steam and discharged outside via the ejection hole after flowing into the first chamber via the inlet conduit.

5 2. The steam producing device capable of performing dual heating processes as claimed in claim 1, wherein the heating pipe includes a coiled section, and a straight section, which are respectively hidden in the heating section, and hidden along the convexly curved projection.

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